

ABSTRACT OF DISCLOSURE

A process to purify Glyphosate solutions (N-phosphonomethylglycine) originated from Glyphosate synthesis by oxidation of N-phosphonomethylimidodiacetic acid and containing formaldehyde and formic acid as main impurities, comprising the steps of: providing an initial solution of Glyphosate with a Glyphosate concentration ranging between 0.1 and 3% w/v, a formaldehyde concentration ranging between 0.5 and 1% w/v, and a formic acid concentration ranging between 0.1 and 0.6% w/v; adjusting the pH of the said initial Glyphosate solution to a value ranging between 2.5 and 3.5 with a base selected from alkylamine, ammonium hydroxide, sodium, or potassium hydroxide; submitting said solution to nanofiltration, at a temperature ranging between 10 and 35 °C and a pressure ranging between 25 and 35 Kg/cm²; carrying out said nanofiltration through at least one nanofiltration membrane; recovering the concentrated Glyphosate solution; and discarding the permeate solution.